

GODDARD SPACE FLIGHT CENTER		TASK ORDER (Instructions and Distribution on Reverse)		PAGE 1 OF 1
1. CONTRACTOR: SSAI		2. CONTRACT NO.: NNG12HP08C		3. TASK/REVISION NO.: Task Order #049
4. JOB ORDER NO./PROJECT:		5. FLIGHT HARDWARE /SOFTWARE; CRITICAL GSA (IF, YES, OBTAIN BLOCK 16 CONCURRENCE): YES      X      NO		6. DESIGNATED FLIGHT ASSURANCE MGR.:
7. DESCRIPTION OF WORK TO BE PERFORMED (OBJECTIVES OR RESULTS DESIRED):  MODIS Cloud Retrieval Algorithm Development and Analysis				
8. TASK DOCUMENTATION REQUIREMENTS/DELIVERABLE ITEMS:  (See Attached Task Order)				
9. PERFORMANCE/MILESTONE SCHEDULE:  May 1, 2015 – April 30, 2016				
10. QUALITY ASSURANCE REQUIREMENTS:  N/A				
11. TRAVEL, MATERIALS, ETC., KNOWN TO BE REQUIRED:  (See Attached Task Order)				
12. OTHER (FUNDING, NTE, HOURS, ETC.):  Total Cost: Fee: Total Price:                      \$141,466				
13. TASK ORIGINATOR/MONITOR/CODE/PHONE:  Steven Platnick/610.0/4-5636			18. THIS TASK ORDER IS ISSUED PURSUANT TO THE TERMS OF THE CONTRACT.  <i>Ayana A. Briscoe</i> 5/18/15 CONTRACTING OFFICER'S SIGNATURE/ DATE      Ayana A. Briscoe  Ayana A. Briscoe      Contracting Officer TYPED OR PRINTED NAME	
14. BRANCH APPROVAL:	15. DIVISION CONCURRENCE:			
16. CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE:  Joel Susskind				
17. CONTRACTOR SIGNATURE:				

Science Systems and Applications, Inc.  
NNG12HP08C  
Task Order Statement of Work

Task Order Number: CY4\_049\_Rev0

Task Order Title: MODIS Cloud Retrieval Algorithm Development and Analysis

1.0 Task Monitor (TM):

Name: Steven Platnick  
Organization: 610: Earth Sciences Division  
Email Address: steven.e.platnick@nasa.gov

2.0 Description of Work to be Performed

Develop, maintain, and support portions of the MODIS atmosphere Level-2 algorithm. Include all required documentation and metadata necessary to allow integration of modified code into the production environment. In particular:

- Modify, document, and maintain forward radiative transfer codes used to generate reflectance look-up tables (LUTs) used in the retrieval of cloud optical and microphysical properties from MODIS, the enhanced MODIS Airborne Simulator (eMAS), VIIRS, and other sensors as needed.
- Develop algorithms for inclusion into the Collection 6 MODIS MOD06 product and provide test data and deliveries to the production system. Provide documentation and maintenance of the software.
- Continue analysis of MODIS atmosphere team trend and correlation studies.
- Develop visualization applications for extracting the SDSs for testing and presentations/publication purposes.
- Perform scientific analysis on MOD06 products and/or other Earth science datasets as needed.
- Provide programming support and consultation to MODIS cloud retrieval group as needed.
- General data analysis and visualization to support MODIS cloud retrieval group efforts.

3.0 Special Requirements

None

4.0 Performance/Milestone Schedule

The SAS Contract Year 4 POP is May 01, 2015 - April 30, 2016

5.0 Deliverables/Reporting Requirements

- Contributions to scientific publications, workshops/conferences/symposia, both oral presentations and written contributions.
- Quarterly and annual reports.
- Delivery and availability of quality-controlled datasets and web-based material.
- Software and hardware documentation.
- Reports documenting participation in conferences, workshops, symposia, working groups and field activities.

#### 6.0 Other Information Needed for Performance of Task

Local and domestic travel will be required for the Annual MODIS Science Team Meetings and the Annual field Campaign science meetings.

#### 7.0 Data Rights

N/A

#### 8.0 Safety

Staff on this task shall comply with federal, state, local, and center safety regulations. This shall be accomplished through management emphasis, technical training, and personal responsibility. Staff shall participate in safety orientation and training in accordance with the contract Safety and Health Plan, and work within the requirements of that plan.

#### 9.0 Risk

Contractor shall provide ongoing risk assessment and mitigation in performance of the Task Order. Priorities shall be re-evaluated as appropriate with the TM. Cost and schedule performance shall be assessed on a regular basis (no less frequently than monthly) and significant variations discussed and acted on in consultation with the TM and COR.

#### 10.0 Proposed Cost and Fixed Fee

In accordance with Paragraph B.8 of the contract, propose the Cost and Fixed Fee amount.